Notice of Allowability	Application No.	Applicant(s)
	10/550,519	EZAKI ET AL.
	Examiner	Art Unit
	Nam T. Nguyen	2824
The MAILING DATE of this communication apperature of the communication appearature of the communication a	ears on the cover sheet with the c (OR REMAINS) CLOSED in this ap or other appropriate communication (IGHTS). This application is subject to 3 and MPEP 1308.	orrespondence address plication. If not included
 This communication is responsive to <u>a Response to Election</u> 	<u>on filed on 6/22/07</u> .	
2. 🗵 The allowed claim(s) is/are <u>1-50</u> .		
 Acknowledgment is made of a claim for foreign priority unas a)	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON'S THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ∕ENT of this application.	complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 	nitted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF ation is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers		948) attached
1) hereto or 2) to Paper No./Mail Date		•
(b) including changes required by the attached Examiner' Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	l.84(c)) should be written on the drawing the header according to 37 CFR 1.121(ngs in the front (not the back) of d).
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.
		1 mg.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 12/30/05 	Paper No./Mail Da 7.	ment/Comment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	_	ent of Reasons for Allowance
	9. ⊠ Other <u>EAST search</u>	
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•	PRIMARY	SON DINH PATENT EXAMINER

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DETAILED ACTION

- 1. The response to restriction requirement dated on 6/22/07 has been entered.
- 2. The Election /Restriction office action dated on 5/16/07 has been withdrawn.
- 3. Claims 1-50 are pending in the application.

REASON FOR ALLOWANCE

4. Claims 1-50 are allowed. Claims 1, 21 and 49 are independent claims.

The following is an examiner's statement of reasons for allowance:

The prior art of record fail to teach or suggest a magnetic memory cell, in combination with other limitations, wherein a toroidal magnetic layer disposed between the first and second stacked bodies so that the direction along the stack layer surface is set as an axial direction, and constructed so as to be penetrated by a plurality of conductors along the axial direction as recited in the independent claim 1; or

A toroidal magnetic layer disposed between the first and second stacked bodies so that the direction along the stack layer surface is set as an axial direction, and constructed so as to be penetrated by the first and second write lines along the axis direction as recited in the independent claim 21; or

A method of steps forming a toroidal magnetic layer by providing a top magnetic layer so as to surround the stack layer pattern via a third insulating film; forming a first stacked body by providing a first stack layer part in a position corresponding to the second stacked body over the toroidal magnetic layer and forming a magnetic memory

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Page 3

Application/Control Number: 10/550,519

Art Unit: 2824

cell having the first and second stacked bodies; and electrically connecting the first stacked body and the first rectifying device as recited in the independent claim 49.

Conclusion

The following prior art, which is considered pertinent to applicant's disclosure 5. although not relied upon, includes:

Asao (US. Pat. No. 6,882,563) discloses a magnetic memory device and method for manufacturing similar to that of the present application, but fail to disclose the claimed limitations as described above.

- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nam T. Nguyen whose telephone number is (571) 272-1878. The examiner can normally be reached on 8 am to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/550,519

Art Unit: 2824

Page 4

44

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nam T Nguyen Examiner Art Unit 2824

7/25/07

SON DINH
PRIMARY PATENT EXAMINER

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